

Yaohong Zhang

List of Publications by Year in descending order

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65
papers

4,099
citations

136740

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114278

63
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69
all docs

69
docs citations

69
times ranked

5833
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of charge transport layer on the crystallinity and charge extraction of pure tin-based halide perovskite film. <i>Journal of Energy Chemistry</i> , 2022, 69, 612-615.	7.1	2
2	Tin-Lead Perovskite Fabricated via Ethylenediamine Interlayer Guides to the Solar Cell Efficiency of 21.74%. <i>Advanced Energy Materials</i> , 2021, 11, 2101069.	10.2	110
3	Passivating Quantum Dot Carrier Transport Layer with Metal Salts. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28679-28688.	4.0	3
4	The effect of water on colloidal quantum dot solar cells. <i>Nature Communications</i> , 2021, 12, 4381.	5.8	44
5	Matrix Manipulation of Directly Synthesized PbS Quantum Dot Inks Enabled by Coordination Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2104457.	7.8	24
6	Growth of Amorphous Passivation Layer Using Phenethylammonium Iodide for High-Performance Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900243.	3.1	43
7	Photoexcited hot and cold electron and hole dynamics at FAPbI ₃ perovskite quantum dots/metal oxide heterojunctions used for stable perovskite quantum dot solar cells. <i>Nano Energy</i> , 2020, 67, 104267.	8.2	35
8	Photoexcited carrier dynamics in colloidal quantum dot solar cells: insights into individual quantum dots, quantum dot solid films and devices. <i>Chemical Society Reviews</i> , 2020, 49, 49-84.	18.7	70
9	Temperature dependent photovoltaic performance of TiO ₂ /PbS heterojunction quantum dot solar cells. <i>Solar Energy</i> , 2020, 195, 1-5.	2.9	31
10	Triethylphosphine Oxide Acts as Alkahest for SnX ₂ /PbX ₂ : A General Synthetic Route to Perovskite ASn _x Pb _{1-x} X ₃ (A = Cs, FA, MA; X = I, Br, Cl) Over	11.0	0
11	Inverted CsPbI ₂ Br perovskite solar cells with enhanced efficiency and stability in ambient atmosphere via formamidinium incorporation. <i>Solar Energy Materials and Solar Cells</i> , 2020, 218, 110741.	3.0	21
12	Passivation Strategy of Reducing Both Electron and Hole Trap States for Achieving High-Efficiency PbS Quantum-Dot Solar Cells with Power Conversion Efficiency over 12%. <i>ACS Energy Letters</i> , 2020, 5, 3224-3236.	8.8	49
13	Surface-Modified Graphene Oxide/Lead Sulfide Hybrid Film-Forming Ink for High-Efficiency Bulk Nano-Heterojunction Colloidal Quantum Dot Solar Cells. <i>Nano-Micro Letters</i> , 2020, 12, 111.	14.4	16
14	Solvent Engineering Using a Volatile Solid for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Science</i> , 2020, 7, 1903250.	5.6	47
15	Near-Infrared Emission from Tin-Lead (Sn-Pb) Alloyed Perovskite Quantum Dots by Sodium Doping. <i>Angewandte Chemie</i> , 2020, 132, 8499-8502.	1.6	10
16	Near-Infrared Emission from Tin-Lead (Sn-Pb) Alloyed Perovskite Quantum Dots by Sodium Doping. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8421-8424.	7.2	38
17	In-Depth Exploration of the Charge Dynamics in Surface-Passivated ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15812-15817.	1.5	6
18	All-inorganic cesium lead halide perovskite nanocrystals for solar-pumped laser application. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	15

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19	Anthradithiophene based hole-transport material for efficient and stable perovskite solar cells. Journal of Energy Chemistry, 2020, 48, 293-298.	7.1	16
20	Facile synthesis of "lucky clover" hole-transport material for efficient and stable large-area perovskite solar cells. Journal of Power Sources, 2020, 454, 227938.	4.0	11
21	Triphenylamine-based hole transporting materials with thiophene-derived bridges for perovskite solar cells. Synthetic Metals, 2020, 261, 116323.	2.1	10
22	Boosting Photocatalytic CO ₂ Reduction on CsPbBr ₃ Perovskite Nanocrystals by Immobilizing Metal Complexes. Chemistry of Materials, 2020, 32, 1517-1525.	3.2	197
23	A multi-objective optimization-based layer-by-layer blade-coating approach for organic solar cells: rational control of vertical stratification for high performance. Energy and Environmental Science, 2019, 12, 3118-3132.	15.6	142
24	Additive Engineering to Grow Micron-Sized Grains for Stable High Efficiency Perovskite Solar Cells. Advanced Science, 2019, 6, 1901241.	5.6	93
25	The interparticle distance limit for multiple exciton dissociation in PbS quantum dot solid films. Nanoscale Horizons, 2019, 4, 445-451.	4.1	19
26	Improving Photovoltaic Performance of ZnO Nanowires Based Colloidal Quantum Dot Solar Cells via SnO ₂ Passivation Strategy. Frontiers in Energy Research, 2019, 7, .	1.2	19
27	Gel ₂ Additive for High Optoelectronic Quality CsPbI ₃ Quantum Dots and Their Application in Photovoltaic Devices. Chemistry of Materials, 2019, 31, 798-807.	3.2	112
28	Solar-pumped fiber laser with all-inorganic cesium lead halide perovskite quantum dots. , 2019, , .		1
29	Surface Coatings for Improving Solar Cell Efficiencies. , 2019, , .		0
30	Hindered Formation of Photoinactive FAPbI ₃ Phase and Hysteresis-Free Mixed-Cation Planar Heterojunction Perovskite Solar Cells with Enhanced Efficiency via Potassium Incorporation. Journal of Physical Chemistry Letters, 2018, 9, 2113-2120.	2.1	72
31	Octadecylamine-Functionalized Single-Walled Carbon Nanotubes for Facilitating the Formation of a Monolithic Perovskite Layer and Stable Solar Cells. Advanced Functional Materials, 2018, 28, 1705545.	7.8	73
32	Ultrafast selective extraction of hot holes from cesium lead iodide perovskite films. Journal of Energy Chemistry, 2018, 27, 1170-1174.	7.1	23
33	Ultrafast Electron Injection from Photoexcited Perovskite CsPbI ₃ QDs into TiO ₂ Nanoparticles with Injection Efficiency near 99%. Journal of Physical Chemistry Letters, 2018, 9, 294-297.	2.1	75
34	Understanding charge transfer and recombination by interface engineering for improving the efficiency of PbS quantum dot solar cells. Nanoscale Horizons, 2018, 3, 417-429.	4.1	50
35	Mixed Sn-Ge Perovskite for Enhanced Perovskite Solar Cell Performance in Air. Journal of Physical Chemistry Letters, 2018, 9, 1682-1688.	2.1	206
36	Recombination Suppression in PbS Quantum Dot Heterojunction Solar Cells by Energy-Level Alignment in the Quantum Dot Active Layers. ACS Applied Materials & Interfaces, 2018, 10, 26142-26152.	4.0	24

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37	Charge carrier kinetics in hematite with NiFeOx coating in aqueous solutions: Dependence on bias voltage. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 344-348.	2.0	30
38	New Tin(II) Fluoride Derivative as a Precursor for Enhancing the Efficiency of Inverted Planar Tin/Lead Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27284-27291.	1.5	26
39	All-inorganic CsPb _{1-x} Ge _x I ₂ Br Perovskite with Enhanced Phase Stability and Photovoltaic Performance. <i>Angewandte Chemie</i> , 2018, 130, 12927-12931.	1.6	31
40	All-inorganic CsPb _{1-x} Ge _x I ₂ Br Perovskite with Enhanced Phase Stability and Photovoltaic Performance. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12745-12749.	7.2	157
41	Interface Passivation Effects on the Photovoltaic Performance of Quantum Dot Sensitized Inverse Opal TiO ₂ Solar Cells. <i>Nanomaterials</i> , 2018, 8, 460.	1.9	20
42	Effect of the conduction band offset on interfacial recombination behavior of the planar perovskite solar cells. <i>Nano Energy</i> , 2018, 53, 17-26.	8.2	110
43	Lead Selenide Colloidal Quantum Dot Solar Cells Achieving High Open-Circuit Voltage with One-Step Deposition Strategy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3598-3603.	2.1	38
44	Improvement of Photovoltaic Performance of Colloidal Quantum Dot Solar Cells Using Organic Small Molecule as Hole-Selective Layer. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2163-2169.	2.1	35
45	Ligand-dependent exciton dynamics and photovoltaic properties of PbS quantum dot heterojunction solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6358-6367.	1.3	31
46	Investigation of Interfacial Charge Transfer in Solution Processed Cs ₂ SnI ₆ Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13092-13100.	1.5	66
47	Colloidal Synthesis of Air-Stable Alloyed CsSn _{1-x} Pb _x I ₃ Perovskite Nanocrystals for Use in Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 16708-16719.	6.6	314
48	Slow hot carrier cooling in cesium lead iodide perovskites. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	56
49	Hole-Transport Materials Containing Triphenylamine Donors with a Spiro[fluorene-9,9'-xanthene] Core for Efficient and Stable Large Area Perovskite Solar Cells (Solar RRL 9-2017). <i>Solar Rrl</i> , 2017, 1, 1770134.	3.1	3
50	Highly Luminescent Phase-Stable CsPbI ₃ Perovskite Quantum Dots Achieving Near 100% Absolute Photoluminescence Quantum Yield. <i>ACS Nano</i> , 2017, 11, 10373-10383.	7.3	748
51	A 2,1,3-Benzoxadiazole Moiety in a D-type Hole-Transporting Material for Boosting the Photovoltage in Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17617-17624.	1.5	40
52	Hole-Transport Materials Containing Triphenylamine Donors with a Spiro[fluorene-9,9'-xanthene] Core for Efficient and Stable Large Area Perovskite Solar Cells. <i>Solar Rrl</i> , 2017, 1, 1700096.	3.1	19
53	Air Stable PbSe Colloidal Quantum Dot Heterojunction Solar Cells: Ligand-Dependent Exciton Dissociation, Recombination, Photovoltaic Property, and Stability. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28509-28518.	1.5	45
54	Novel Y doped BiVO ₄ thin film electrodes for enhanced photoelectric and photocatalytic performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 327, 25-32.	2.0	23

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55	Thiocyanate-free asymmetric ruthenium(II) dye sensitizers containing azole chromophores with near-IR light-harvesting capacity. <i>Journal of Power Sources</i> , 2016, 331, 100-111.	4.0	16
56	Neutral and anionic tetrazole-based ligands in designing novel ruthenium dyes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 307, 416-425.	4.0	27
57	Fabrication of $\text{Y}_x\text{Bi}_{1-x}\text{VO}_4$ solid solutions for efficient C_2H_4 photodegradation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4163-4169.	5.2	19
58	Multiple-Anchoring Triphenylamine Dyes for Dye-Sensitized Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8756-8765.	1.5	70
59	Effect of different acceptors in di-anchoring triphenylamine dyes on the performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2014, 105, 1-6.	2.0	21
60	Improved photocatalytic activity by utilizing the internal electric field of polar semiconductors: a case study of self-assembled NaNbO_3 oriented nanostructures. <i>RSC Advances</i> , 2014, 4, 3165-3170.	1.7	27
61	Bimetallic alloy nanocrystals encapsulated in ZIF-8 for synergistic catalysis of ethylene oxidative degradation. <i>Chemical Communications</i> , 2014, 50, 10115.	2.2	106
62	$\text{C}_3\text{N}_4/\text{BiVO}_4$ composites with enhanced and stable visible light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2014, 590, 9-14.	2.8	124
63	In_2S_3 sensitized solar cells with a new passivation layer. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 281, 53-58.	2.0	8
64	SnSe_2 quantum dot sensitized solar cells prepared employing molecular metal chalcogenide as precursors. <i>Chemical Communications</i> , 2012, 48, 3324.	2.2	67
65	The optical and electrochemical properties of CdS/CdSe co-sensitized TiO_2 solar cells prepared by successive ionic layer adsorption and reaction processes. <i>Solar Energy</i> , 2012, 86, 964-971.	2.9	80